

-1- (JAPIO)

ACCESSION NUMBER

86-140068

TITLE

ZINC ALKALI BATTERY

PATENT APPLICANT

(2000582) MATSUSHITA ELECTRIC IND CO LTD; (2000618)

INVENTORS

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86.06.27 J61140068, JP 61-140068

APPLICATION DETAILS

84.12.12 84JP-262141, 59-262141

SOURCE

86.11.14 SECT. E, SECTION NO. 454; VOL. 10, NO. 337,

PG. 25.

INT'L PATENT CLASS

H01M-004/42; C22C-018/00

42.9 (ELECTRONICS--Other); 12.2 (METALS--Metallurgy  
Heat Treating); 12.3 (METALS--Alloys)

JAPIO CLASS

PURPOSE: To obtain a low pollution zinc alkali  
battery by employing zinc alloy containing Ni and Te  
within proper content for the negative electrode.  
CONSTITUTION: Zinc alloy containing 0.01-0.5wt% of  
nickel (Ni) and 0.01-0.5wt% of tellurium (Te) is  
employed for the negative pole of zinc alkali  
battery. When adding both Ni and Te for negative pole  
zinc, remarkable corrosion-proof effect is achieved  
when compared with the case where said element is  
added independently. Remarkable complex effect is  
recognized only when the content of Ni and Te in zinc  
alloy composition is within said range. Consequently,  
a zinc negative pole having low hardening rate while  
provided with discharge performance and corrosion  
resistance is obtained through combination of the  
elements to be added into zinc alloy and experimental  
study.